



Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/veterinary-medicine/postgraduate-certificate/diseases-surgery-ocular-appendages-lacrimal-apparatus-equids

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The importance of addressing diseases and surgery of the ocular appendages and tear ducts in equids lies in the need to ensure the welfare and prevent the progression of conditions that can become irreversible if not treated in time. In addition, advances in ophthalmologic surgery have allowed the development of techniques that, in the hands of trained professionals, can offer effective solutions to complex problems, improving the quality of life of the animals and avoiding significant economic losses for their owners.

This Postgraduate Certificate in Diseases and Surgery of the Ocular Appendages and Lacrimal Apparatus in Equids from TECH offers specialists the opportunity to specialize in a key area of Equine Veterinary Medicine. Using the latest scientific advances, the program will provide solid knowledge in the diagnosis, treatment and surgical management of pathologies affecting eyelids, lacrimal glands and lacrimal excretory pathways in equids. In this way, veterinarians will master fundamental surgical techniques, supported by experts in the field, and will handle the tools that will allow them to identify complex ophthalmologic problems in order to develop effective solutions.

Thanks to this specialized knowledge, graduates will excel in veterinary clinics and specialized hospitals, consolidating their careers in a highly demanded niche. With this training they will not only improve the quality of the services offered, but also expand professional opportunities by positioning themselves as leaders in Equine Ophthalmology.

All of the above will be materialized with the 100% online modality that combines flexibility with academic excellence. This approach allows graduates to access the contents from anywhere and at any time that best suits their pace of life. This is complemented by the innovative Relearning methodology, which optimizes the acquisition of knowledge through the strategic reiteration of key concepts in different contexts. From these benefits, students will master complex topics with the support of quality, interactive resources designed by an expert teaching team.

This Postgraduate Certificate in Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of case studies presented by experts with a deep mastery of Diseases and Surgery of Ocular Appendages and Lacrimal System in Equids
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies
- Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Content that is accessible from any fixed or portable device with an Internet connection



TECH's pedagogical model not only guarantees a high-level academic experience, but also gives you the possibility to train at your own pace, getting the most out of your training"

Introduction to the Program | 07 tech



You will specialize in one of the most in-demand areas of equine medicine and make a difference to your patients. Join TECH and be part of the largest online university in the world according to Forbes!"

The program's teaching staff includes professionals from the industry who contribute their work experience to this program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

You will master the most advanced techniques in ocular adnexal surgery and lacrimal apparatus in equines, with a 100% online program designed to transform your veterinary career.

Do you want to become an expert in Equine Ophthalmology? Enroll in this program and expand your professional horizons from anywhere.







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The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



The most complete syllabus





World's No.1 The World's largest online university

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.







99% maximun employability guaranteed

-0

Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.

The top-rated university by its students

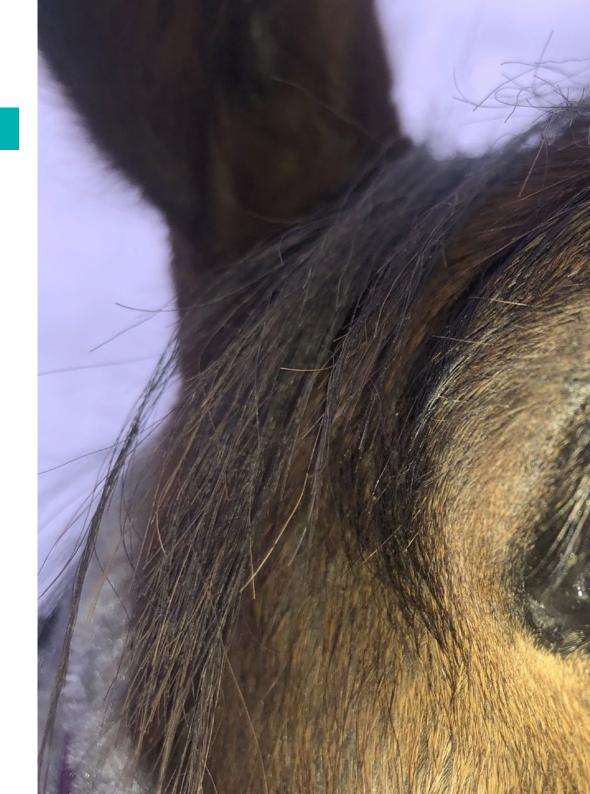
Students have positioned TECH as the world's toprated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



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Module 1. Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids

- 1.1. Physiology of the Ocular Appendages in Equids
 - 1.1.1. Upper and Lower Eyelid
 - 1.1.2. Histological Structure of the Eyelids
 - 1.1.3. Conjunctiva and Nictitating Membrane: Anatomy and Functions
 - 1.1.4. Innervation and Vascularization of the Eyelids and Conjunctiva
 - 1.1.5. Anatomical Variations in Different Breeds of Horses
- 1.2. Nasolacrimal System in Equids
 - 1.2.1. Nasolacrimal System
 - 1.2.2. Role of the Nasolacrimal System in Tear Drainage
 - 1.2.3. Main Lacrimal Gland and Accessory Glands
 - 1.2.4. Structure of the Nasolacrimal Duct
- 1.3. Physiology of Lacrimal Production and the Tear Film in Equids
 - 1.3.1. Basal and Reflex Tear Production
 - 1.3.2. Function of the Tear Film
 - 1.3.3. Composition of the Tear Film: Aqueous, Lipid and Mucous Layer
 - 1.3.4. Role of the Tear Film in Corneal Protection
 - 1.3.5. Relationship between Blinking and Tear Distribution
- 1.4. Congenital Pathologies of the Appendages in Equids
 - 1.4.1. Congenital Entropion and Management
 - 1.4.2. Ankyloblepharon: Diagnosis and Treatment
 - 1.4.3. Coloboma: Clinical Presentation and Correction
 - 1.4.4. Dermoid: Identification and Therapeutic Approach
 - 1.4.5. Subconjunctival Hemorrhages: Diagnosis and Management
- 1.5. Pathologies of the Eyelids in Equids
 - 1.5.1. Blepharitis: Types and Treatment
 - 1.5.2. Chalazion, Ditichiasis, Dystrichiasis, Ectopic Cilia and Stye
 - 1.5.3. Entropion in Adults and Ectropion: Causes and Correction
 - 1.5.4. Traumatic Eyelid Lacerations
 - 1.5.5. Palpebral Neoplasms: Diagnosis and Surgical Management





Syllabus | 15 tech

- 1.6. Pathologies of the Conjunctiva and Nictitating Membrane in Equids
 - 1.6.1. Infectious Conjunctivitis
 - 1.6.2. Allergic and Autoimmune Conjunctivitis
 - 1.6.3. Neoplasms of the Conjunctiva and Nitctitating Membrane
 - 1.6.4. Conjunctival Pseudotumors in Horses
 - 1.6.5. Complications of Chronic Conjunctivitis
- 1.7. Pathologies of the Nasolacrimal System in Equids
 - 1.7.1. Congenital Diseases of the Nasolacrimal System
 - 1.7.1.1. Epiphora: Differential Diagnosis
 - 1.7.1.2. Atresia of the Nasolacrimal Duct
 - 1.7.1.3. Lacrimal Punctal Malformations
 - 1.7.1.4. Nasolacrimal Obstructions in Foals
 - 1.7.2. Inflammatory Diseases of the Nasolacrimal System
 - 1.7.2.1. Acquired Obstructions of the Nasolacrimal Duct
 - 1.7.2.2. Dacryocystitis: Causes and Management
 - 1.7.2.3. Chronic Inflammation of the Nasolacrimal System
 - 1.7.3. Quantitative and Qualitative Keratoconjunctivitis Sicca
- 1.8. Diagnosis of Diseases of the Nasolacrimal System and Eyelids in Equids
 - 1.8.1. Schirmer's Test and Its Use in Lacrimal Evaluation
 - 1.8.2. Dacryocystography Other Imaging Techniques
 - 1.8.3. Microbiological and Immunological Evaluation of Lacrimal Pathologies
 - 1.8.4. Advanced Methods for the Diagnosis of Keratoconjunctivitis Sicca
- 1.9. Surgical Treatments of Pathologies of the Nasolacrimal System and Eyelids in Equids
 - 1.9.1. Surgical Correction of Entropion and Ectropion
 - 1.9.2. Reconstructive Eyelid Surgery
 - 1.9.3. Nasolacrimal Duct Probing
 - 1.9.4. Dacryocystorhinostomy: Indications and Surgical Techniques
 - 1.9.5. Post-Surgical Complications and Management
- 1.10. Complex Cases in Pathology of the Ocular Appendages and the Nasolacrimal System in Equids
 - 1.10.1. Complex Cases of Blepharitis
 - 1.10.2. Surgical Treatment of Palpebral Neoplasms
 - 1.10.3. Management of Chronic Epiphora in Sport Horses
 - 1.10.4. Case of Qualitative Keratoconjunctivitis Sicca
 - 1.10.5. Postoperative Follow-Up in Lacrimal Surgery





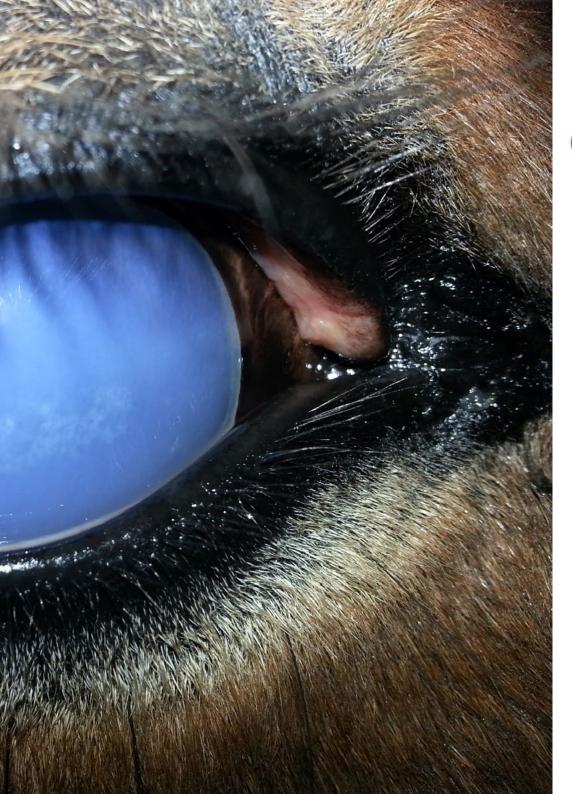
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General Objectives

- Develop skills to identify and diagnose pathologies in the ocular appendages and lacrimal apparatus in equids
- Analyze the anatomy and physiology of the ocular appendages to understand their relationship with different diseases
- Apply advanced clinical examination techniques to detect lacrimal and palpebral disorders
- Design medical and surgical treatment plans tailored to equine needs
- Implement preventive strategies to minimize the impact of diseases in the ocular appendages and lacrimal apparatus
- Interpret diagnostic imaging studies focused on the evaluation of the ocular system in equids
- Master innovative surgical procedures to treat specific pathologies of the ocular appendages
- Evaluate and manage postoperative ocular interventions to ensure optimal patient recovery





Teaching Objectives | 19 tech



Specific Objectives

- Describe the most common alterations of the ocular appendages and lacrimal apparatus in equids
- Evaluate surgical techniques to correct eyelid, gland and lacrimal duct conditions
- Implement effective therapeutic protocols for non-surgical ocular adnexal diseases
- Accurately diagnose lacrimal apparatus dysfunctions and their impact on ocular health



This comprehensive qualification program is optimized thanks to the benefits of digital learning, state-of-the-art pedagogical models and the most up-to-date curriculum on the market"



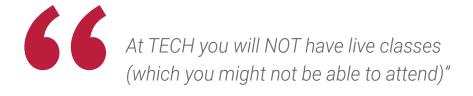


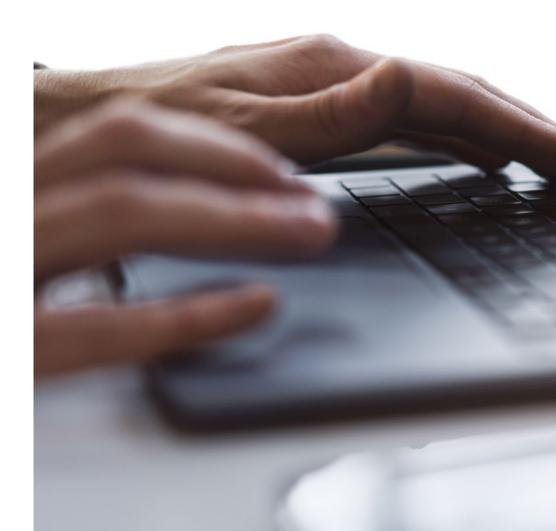
The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.







The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.



TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want"

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Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.





A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

The effectiveness of the method is justified by four fundamental achievements:

- 1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
- **2.** Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

Study Methodology | 27 tech

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.

As such, the best educational materials, thoroughly prepared, will be available in this program:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

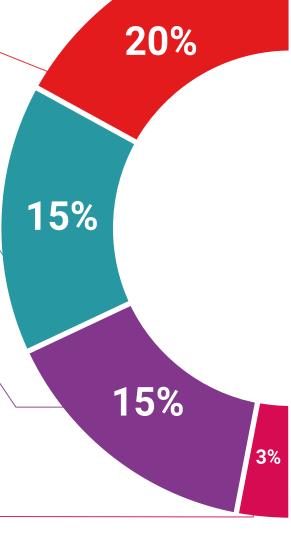
You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.



Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

Testing & Retesting



We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

Classes



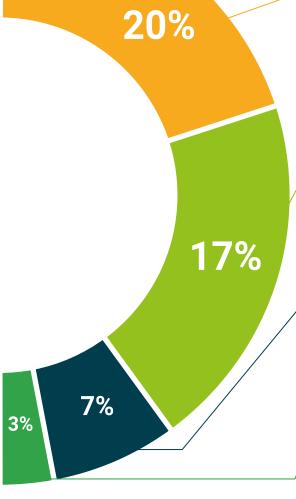
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence for future difficult decisions.

Quick Action Guides



TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.







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Management



Dr. Arteaga Sancho, Kevin

- Senior Ophthalmologist at CityU VMC
- Expert in Basic Sciences in Ophthalmology from the University of California
- Specialist in Veterinary Ophthalmology from the University of Barcelona
- Master's Degree in Small Animal Medicine from the University of Murcia
- Degree in Veterinary Medicine from the CEU University of Valencia

Professors

Dr. Simó Domenech, Francisco José

- Medical Director and Founder at the Ophthalmologic Veterinary Institute (IVO)
- Veterinary Ophthalmologist at Long Island Veterinary Specialists. New York
- Collaboration with the R&D Department of Alcon Laboratories. El Masnou, Spain
- Collaborations in the experimental center of Harlan Laboratories
- Degree in Veterinary Medicine from the University of Zaragoza
- Postgraduate Degree in Veterinary Ophthalmology from the Autonomous University of Barcelona
- Residencies at the Veterinary Faculty of Toulouse, with Dr. Marc Simon in Paris and at the Ophthalmology Service of Long Island Veterinary Specialists in New York
- Accredited by the Association of Spanish Veterinarians Specialists in Small Animals (AVEPA) as a Specialist in Veterinary Ophthalmology
- Member of: Spanish Society of Veterinary Ophthalmology (SEOVET)

Dr. Simó Vesperinas, María

- Emergency Veterinarian at Vets Now Emergency Hospital. Manchester
- · Veterinarian in General Medicine at Canis Veterinary Hospital. Girona, Spain
- Stays at the Texas A&M Veterinary Medical Teaching Hospital
- Degree in Veterinary Medicin from the Autonomous University of Barcelona
- Practical program of Microsurgery in Corneal Pathology at the Institute of Ocular Microsurgery (IMO)
- Veterinary Ophthalmology Congress: "Ocular manifestations of systemic diseases", held at the Institute of Ocular Microsurgery (IMO)
- Postgraduate in Veterinary Ophthalmology by British Small Animal Veterinary Association

Dr. Guarnizo Barrionuevo, Carla Pamela

- Veterinary Technical Assistant (VTA) at the Ophthalmologic Veterinary Institute (IVO)
- Expert in Ocular Ultrasonography at Oftalmovet Center
- Expert in Laboratory Analysis at CONCERVET Veterinary Clinic
- Expert in Ocular Ultrasonography in GENOV
- Specialist in Neurology, Ophthalmology and Reproduction of Small Animals at the Autonomous University of Barcelona
- Specialist in Intensive Care and Dermatology at the Autonomous University of Barcelona
- Specialist in Advanced Veterinary Ophthalmology
- Diploma in Veterinary Ophthalmology from the Catholic University of Salta
- Degree in Veterinary and Zootechnics from the Cayetano Heredia Peruvian University



All teachers in this program accumulate extensive experience, offering you an innovative perspective on the main advances in this field of study"





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This private qualification will allow you to obtain a **Postgraduate Certificate in Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra (official bulletin). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University private qualification**, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Certificate in Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



has successfully passed and obtained the title of:

Postgraduate Certificate in Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

health confidence people

leducation information tutors
guarantee accreditation teaching
institutions technology learning



Postgraduate Certificate Diseases and Surgery of Ocular Appendages and Lacrimal Apparatus in Equids

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